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1 **Validation of nonrigid image registration using finite-element meth application to breast MR images**
Schnabel, J.A.; Tanner, C.; Castellano-Smith, A.D.; Degenhard, A.; Leach, M. Hose, D.R.; Hill, D.L.G.; Hawkes, D.J.;
Medical Imaging, IEEE Transactions on , Volume: 22 , Issue: 2 , Feb. 2003
Pages:238 - 247

[Abstract]   [PDF Full-Text (827 KB)]   **IEEE JNL**

---

2 **D-NURBS: a physics-based framework for geometric design**
Hong Qin; Terzopoulos, D.;
Visualization and Computer Graphics, IEEE Transactions on , Volume: 2 , Issu 1 , March 1996
Pages:85 - 96

[Abstract]   [PDF Full-Text (1404 KB)]   **IEEE JNL**

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1 **Path planning for an omnidirectional mobile manipulator by evoluti computation**
Watanabe, K.; Kiguchi, K.; Izumi, K.; Kunitake, Y.;
Knowledge-Based Intelligent Information Engineering Systems, 1999. Third International Conference , 31 Aug.-1 Sept. 1999
Pages:135 - 140

[Abstract]   [PDF Full-Text (412 KB)]   **IEEE CNF**

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1 **A new algorithm for solving Maxwell's equations in high-power microwave device simulations**
Chih-Chien Lin; Lin, A.T.;
Plasma Science, IEEE Transactions on , Volume: 26 , Issue: 3 , June 1998
Pages:893 - 900

[Abstract]   [PDF Full-Text (276 KB)]   **IEEE JNL**

2 **Spatially variant B-spline function for image interpolation**
Hee Soo Kim; Hyung Suk Kim; Sun Kyu Kwon; Yeong Ho Ha;
TENCON 99. Proceedings of the IEEE Region 10 Conference , Volume: 1 , 15-Sept. 1999
Pages:714 - 717 vol.1

[Abstract]   [PDF Full-Text (364 KB)]   **IEEE CNF**

3 **A heuristic to isolate interfering bodies in the BNCT treatment plann system**
Chawla, R.; Starkey, J.D.; Babcock, R.S.; Wessol, D.E.;
Computer-Based Medical Systems, 1994., Proceedings 1994 IEEE Seventh Symposium on , 10-12 June 1994
Pages:152 - 157

[Abstract]   [PDF Full-Text (180 KB)]   **IEEE CNF**

4 **Temporal subtraction of thorax CR images using a statistical def rmati n model**
Loeckx, D.; Maes, F.; Vandermeulen, D.; Suetens, P.;
Medical Imaging, IEEE Transactions on , Volume: 22 , Issue: 11 , Nov. 2003
Pages:1490 - 1504

[Abstract]   [PDF Full-Text (4872 KB)]   **IEEE JNL**

5 **M deling respirat ry mechanics in the MCAT and spline-based MCAT phant ms**
Segars, W.P.; Lalush, D.S.; Tsui, B.M.W.;
Nuclear Science, IEEE Transactions on , Volume: 48 , Issue: 1 , Feb 2001
Pages:89 - 97

[Abstract]   [PDF Full-Text (1324 KB)]   **IEEE JNL**

6 **Effects of upward creep and respiratory motion in myocardial SPECT**
Tsui, B.M.W.; Segars, W.P.; Lalush, D.S.;
Nuclear Science, IEEE Transactions on , Volume: 47 , Issue: 3 , June 2000
Pages:1192 - 1195

[Abstract]   [PDF Full-Text (472 KB)]   **IEEE JNL**

7 **Region coding using improved B-spline surface approximation**
Jinhui Pan; Qingmin Liao;
Electronics Letters , Volume: 36 , Issue: 2 , 20 Jan. 2000
Pages:129 - 130

[Abstract]   [PDF Full-Text (112 KB)]   **IEE JNL**

8 **Dynamic multiresolution route optimization for autonomous aircraft**
Samad, T.; Gorinevsky, D.; Stoffelen, F.;
Intelligent Control, 2001. (ISIC '01). Proceedings of the 2001 IEEE Internation Symposium on , 5-7 Sept. 2001
Pages:13 - 18

[Abstract]   [PDF Full-Text (546 KB)]   **IEEE CNF**

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1 **Recovery of corrupted image data based on the NURBS interpolati n**
Jong Wook Park; Sang Uk Lee;
Circuits and Systems for Video Technology, IEEE Transactions on , Volume:
9 , Issue: 7 , Oct. 1999
Pages:1003 - 1008

[Abstract]   [PDF Full-Text (396 KB)]   IEEE JNL

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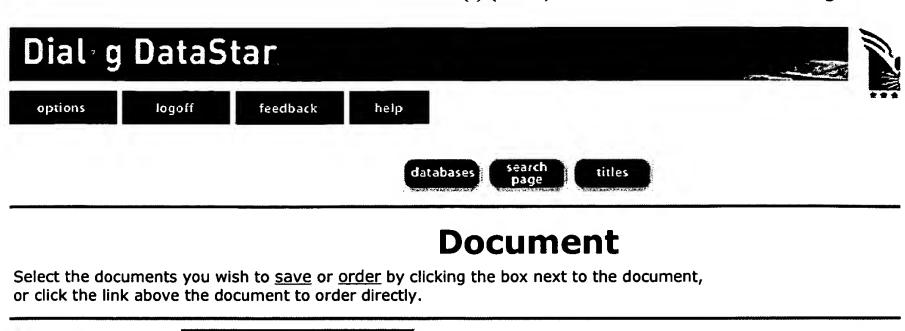| options | logoff | feedback | help |

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  2000. (INZZ) Accuracy and stability of a set of free-surface time-domain boundary element models based on **B-splines.**

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INSPEC - 1969 to date (INZZ)

Accession number & update
6658183, A2000-17-4710-014; 20000701.

Title
Accuracy and stability of a set of free-surface time-domain boundary element models based on **B-splines.**

Author(s)
Buchmann-B.

Author affiliation
Dept of Hydrodynamics and Water Resources, Tech Univ Denmark, Lyngby, Denmark.

S urce
International-Journal-for-Numerical-Methods-in-Fluids (UK), vol.33, no.1, p.125-55, 15 May 2000. ,
Published: Wiley.

CODEN
IJNFDW.

ISSN
ISSN: 0271-2091.

Availability
SICI: 0271-2091(20000515)33:1L.125:ASFS; 1-1.

Publication year
2000.

Language
EN.

Publication type
J Journal Paper.

Treatment codes
T Theoretical or Mathematical.

Abstract
An analysis is given for the accuracy and stability of some perturbation-based time-domain boundary element models (BEMs) with **B-** spline basis functions, solving hydrodynamic free-surface problems, including forward speed effects. The spatial convergence rate is found as a function of the order of the **B-spline** basis. It is shown that for all the models examined the mixed implicit-explicit Euler time integration scheme is correct to second order. Stability diagrams are found for models based on **B-splines** of orders third through to sixth for two different time integration schemes. The stability analysis can be regarded as an extension of the analysis by Vada and Nakos Vada T, Nakos DE. Time marching schemes for ship motion simulations. In Proceedings of the 8th International Workshop on Water Waves and Floating Bodies, St. John's, Newfoundland, Canada, 1993; 155-158ù to include **B-splines** of orders higher than three (piecewise quadratic polynomials) and to include finite water depth

and a current at an oblique angle to the model **grid.** (25 refs).

Descriptors

boundary-elements-methods; flow-simulation; hydrodynamics; integration; numerical-stability; perturbation-theory; polynomials; splines-mathematics; time-domain-analysis.

Keyw rds

free surface time domain boundary element models; **B splines;** stability; accuracy; perturbation based time domain boundary element models; **B** spline basis functions; hydrodynamic free surface problems; forward speed effects; spatial convergence rate; **B** spline basis; mixed implicit explicit Euler time integration scheme; stability diagrams; time integration scheme; stability analysis; finite water depth; oblique angle; model **grid.**

Classification codes

A4710 (General fluid dynamics theory, **simulation** and other

         computational methods).
A0260   (Numerical approximation and analysis).
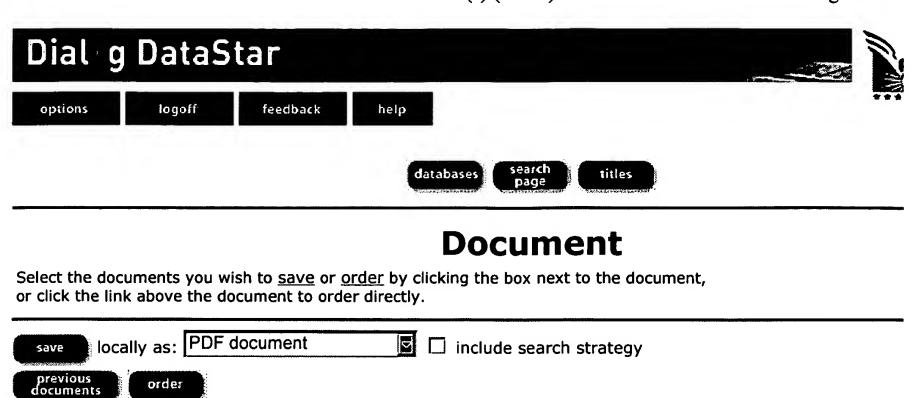A0210   (Algebra, set theory, and graph theory).

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INSPEC - 1969 to date (INZZ)

Accession number & update
4328708, B9303-0290T-001, C9303-4185-002; 930119.
Title
The National **Grid** Project.
Author(s)
Thompson-J-F.
Author affiliation
NSF Eng Res Center for Comput Field **Simulation,** Mississippi State Univ, Mississippi State, MS, USA.
S urce
Symposium on High-Performance Computing for Flight Vehicles, Washington, DC, USA, 7-9 Dec. 1992.
Sponsors: Univ. Virginia, George Washington Univ., NASA.
In: Computing-Systems-in-Engineering (UK), vol.3, no.1-4, p.393-9, 1992.
CODEN
COSEEO.
ISSN
ISSN: 0956-0521, CCCC: 0956-0521/92/ ($5.00+.00).
Publication year
1992.
Language
EN.
Publication type
CPP Conference Paper, J Journal Paper.
Treatment codes
G General or Review.

Abstract
The objective of this National **Grid** Project is to increase the efficiency and productivity of the **grid** generation process to the high level required for high performance computational **simulation** of real-world systems for design and analysis in engineering applications. The Project is achieving this objective by developing a comprehensive interactive/automated **grid** generation system which will provide a uniform environment for the construction of computational grids using state-of-the-art technology. This comprehensive **grid** generation system is a necessary element to meet the grand challenges of the nation's High Performance Computing and Communications Program. The system incorporates a surface definition system including: an interface with IGES files and CAD systems; **B-splines** and NURBS; surface-surface intersection; surface quality enhancement; a surface **grid** generation system based on surface parametric coordinates; a volume **grid** generation system including transfinite interpolation, elliptic and hyperbolic generation systems; both block-structured and unstructured grids with hybrid and chimera (overset) combinations; and orthogonal, reflective and

periodic boundaries. Block interfaces and connectivity are automated and the system includes automated fault diagnostics and corrective measures. (0 refs).

Descript rs

electronic-data-interchange; mesh-generation; partial-differential-equations.

Keyw rds

orthogonal boundaries; block structured grids; mesh generation; reflective boundaries; partial differential equations; IGES interface; CAD interface; domain decomposition; National **Grid** Project; **grid** generation process; engineering applications; computational grids; surface definition system; IGES files; CAD systems; **B splines;** NURBS; surface surface intersection; surface quality enhancement; surface **grid** generation system; surface parametric coordinates; volume **grid** generation; transfinite interpolation; elliptic; hyperbolic; block structured; unstructured grids; periodic boundaries; automated fault diagnostics; corrective measures.

Classification codes

```
B0290T      (Finite element analysis).
B0290P      (Differential equations).
C4185       (Finite element analysis).
C7400       (Engineering).
C4170       (Differential equations).
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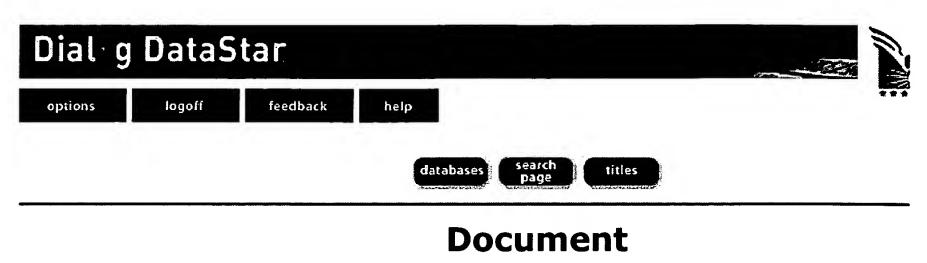| options | logoff | feedback | help |

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    1982. (INZZ) Modelling chemically reacting flow systems. II. An adaptive spatial mesh technique for problems with discontinuities and steep fronts.

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Accession number & update
   1965821, A83004288, C83002862; 830000.
Title
   Modelling chemically reacting flow systems. II. An adaptive spatial mesh technique for problems with
   discontinuities and steep fronts.
Author(s)
   Nikolakopoulou-G-A; Edelson-D; Schryer-N-L.
Author affiliation
   Bell Labs, Murray Hill, NJ, USA.
S urce
   Computers-Chemistry (UK), vol.6, no.3, p.93-9, 1982.
CODEN
   COCHDK.
ISSN
   ISSN: 0097-8485.
Publication year
   1982.
Language
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Publication type
   J Journal Paper.
Treatment codes
   T Theoretical or Mathematical.

Abstract
   For pt.I see ibid., vol.2, p.71 (1978). An algorithm is developed for the numerical solution of nonlinear
   time-varying partial differential equations in one space dimension, whose solution exhibits moving
   spatial derivative discontinuities and steep fronts. A **finite-element** technique dynamically maps a
   static uniform mesh onto a moving mesh. This gives the capability of tracking discontinuities and steep
   fronts and assigning variable subintervals. The technique used is a combination of spatial discretization
   by Galerkins methods, using **B- splines,** and solution in time by a variable order, variable time-step
   extrapolation procedure. The two spatial meshes are coupled through a set of ordinary differential
   equations defining either conditions in the solution function (discontinuities, steep fronts), or direct
   values of the adaptive mesh. This set of ordinary differential equations is coupled to the partial
   differential equations defining the problem and is solved simultaneously with it. The technique was
   applied to the problem of migration of copper salts through polyethylene, and enabled the authors to
   handle successfully the phenomena of diffusion, reaction, and precipitation, which mathematically
   translate into a steep front, boundary layer, and a derivative discontinuity respectively. The

simulati n reproduced the main features found experimentally, lending credence to the correctness of the model and the validity of the calculated results. (11 refs).

Descript rs

boundary-layers; chemically-reactive-flow; chemistry-computing; diffusion; finite-element-analysis; partial-differential-equations; splines-mathematics; subroutines.

Keyw rds

subroutines; chemically reacting flow systems; adaptive spatial mesh technique; discontinuities; steep fronts; numerical solution; nonlinear time varying partial differential equations; **finite element** technique; spatial discretization; Galerkins methods; **B splines;** ordinary differential equations; copper salts; polyethylene; correctness.

Classification codes

```
A4770F      (Chemically reactive flows).
A8240       (Chemical kinetics and reactions: special regimes).
C4170       (Differential equations).
C7320       (Physics and Chemistry).
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PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040044715 A1

TITLE: System and methods of nonuniform data sampling and data reconstruction in shift invariant and wavelet spaces

PUBLICATION-DATE: March 4, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Aldroubi, Akram	Nashville	TN	US	
Grochenig, Karlheinz	Nashville	TN	US	
Feichtinger, Hans G.	Mistelbach		AT	

US-CL-CURRENT: 708/490

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PGPUB-DOCUMENT-NUMBER: 20020029135
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020029135 A1

TITLE: Process for increasing the efficiency of a computer in finite element simulations and a computer for performing that process

PUBLICATION-DATE: March 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hollig, Klaus	Zavelstein		DE	
Reif, Ulrich	Reichelsheim		DE	
Wipper, Joachim	Leinfelden-Echterdingon		DE	

US-CL-CURRENT: 703/2

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐   3.   Document ID: US 6718291 B1

L11: Entry 3 of 3   File: USPT   Apr 6, 2004

US-PAT-NO: 6718291
DOCUMENT-IDENTIFIER: US 6718291 B1

TITLE: Mesh-free method and system for modeling and analysis

DATE-ISSUED: April 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shapiro; Vadim	Madison	WI	53705	
Tsukanov; Igor G.	Madison	WI	53705	

US-CL-CURRENT: 703/2; 703/14, 703/5, 716/20

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PGPUB-DOCUMENT-NUMBER: 20040071363
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040071363 A1


TITLE: Methods for performing DAF data filtering and padding


PUBLICATION-DATE: April 15, 2004


INVENTOR-INFORMATION:
```

NAME	CITY	STATE	COUNTRY	RULE-47
Kouri, Donald J.	Bellaire	TX	US	
Hoffman, David K.	Missouri City	TX	US	
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Wang, Haixiang			US	
Wei, Guowei W.			US	
Bao, Zheng			CN	

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US-CL-CURRENT: 382/276; 382/128, 382/254
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☐ 2. Document ID: US 20020029135 A1

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L14: Entry 2 of 5                        File: PGPB                Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020029135
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020029135 A1


TITLE: Process for increasing the efficiency of a computer in finite element
simulations and a computer for performing that process


PUBLICATION-DATE: March 7, 2002


INVENTOR-INFORMATION:
```

NAME	CITY	STATE	COUNTRY	RULE-47
Hollig, Klaus	Zavelstein		DE	
Reif, Ulrich	Reichelsheim		DE	
Wipper, Joachim	Leinfelden-Echterdingon		DE	

US-CL-CURRENT: 703/2

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 3. Document ID: US 6718291 B1

L14: Entry 3 of 5   File: USPT   Apr 6, 2004

US-PAT-NO: 6718291
DOCUMENT-IDENTIFIER: US 6718291 B1

TITLE: Mesh-free method and system for modeling and analysis

DATE-ISSUED: April 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shapiro; Vadim	Madison	WI	53705	
Tsukanov; Igor G.	Madison	WI	53705	

US-CL-CURRENT: 703/2; 703/14, 703/5, 716/20

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 4. Document ID: US 5561754 A

L14: Entry 4 of 5   File: USPT   Oct 1, 1996

US-PAT-NO: 5561754
DOCUMENT-IDENTIFIER: US 5561754 A
** See image for Certificate of Correction **

TITLE: Area preserving transformation system for press forming blank development

DATE-ISSUED: October 1, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Oliver; James H.	Ames	IA		
Nair; Nirmal K.	Ames	IA		

US-CL-CURRENT: 345/441

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 5. Document ID: US 5510995 A

L14: Entry 5 of 5   File: USPT   Apr 23, 1996

US-PAT-NO: 5510995
DOCUMENT-IDENTIFIER: US 5510995 A

TITLE: Sculptured surface synthesis based on functional design constraints

DATE-ISSUED: April 23, 1996

INVENTOR-INFORMATION:
NAME   CITY   STATE   ZIP CODE   COUNTRY
Oliver; James H.   Ames   IA

US-CL-CURRENT: 700/182; 345/419, 345/440

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |

Term	Documents
FINITE	94103
FINITES	14
ELEMENT	1153007
ELEMENTS	1511676
(13 AND (FINITE ADJ ELEMENT)).PGPB,USPT.	5
(L13 AND FINITE ELEMENT).PGPB,USPT.	5

Display Format: |- | Change Format

Previous Page   Next Page   Go to Doc#

Hit List

Search Results - Record(s) 1 through 16 of 16 returned.

☐ 1. Document ID: US 20040071363 A1

Using default format because multiple data bases are involved.

L13: Entry 1 of 16   File: PGPB   Apr 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040071363
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040071363 A1

TITLE: Methods for performing DAF data filtering and padding

PUBLICATION-DATE: April 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kouri, Donald J.	Bellaire	TX	US	
Hoffman, David K.	Missouri City	TX	US	
Kakadiaris, Ioannis A.	Houston	TX	US	
Shi, Zhuoer	Fayetteville	AR	US	
Zhang, DeSheng	Houston	TX	US	
Gunaratne, Gemunu H.	East Lansing	MI	US	
Arnold, Mark	Shaanxi		US	
Wang, Haixiang			US	
Wei, Guowei W.			US	
Bao, Zheng			CN	

US-CL-CURRENT: 382/276; 382/128, 382/254

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 2. Document ID: US 20040070394 A1

L13: Entry 2 of 16   File: PGPB   Apr 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040070394
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040070394 A1

TITLE: Parallel mr imaging using high-precision coil sensitivity map

PUBLICATION-DATE: April 15, 2004

INVENTOR-INFORMATION:
NAME   CITY   STATE   COUNTRY   RULE-47

Gonzalez Ballester, Miguel Angel   Nice   FR
Machida, Yoshio   Nasu-Gun   JP

US-CL-CURRENT: <u>324</u>/<u>307</u>; <u>324</u>/<u>309</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 3.   Document ID: US 20020029135 A1

L13: Entry 3 of 16   File: PGPB   Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020029135
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020029135 A1

TITLE: Process for increasing the efficiency of a computer in finite element
<u>simulations</u> and a computer for performing that process

PUBLICATION-DATE: March 7, 2002

INVENTOR-INFORMATION:
NAME	CITY	STATE	COUNTRY	RULE-47
Hollig, Klaus	Zavelstein		DE	
Reif, Ulrich	Reichelsheim		DE	
Wipper, Joachim	Leinfelden-Echterdingon		DE	

US-CL-CURRENT: <u>703</u>/<u>2</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 4.   Document ID: US 6738062 B1

L13: Entry 4 of 16   File: USPT   May 18, 2004

US-PAT-NO: 6738062
DOCUMENT-IDENTIFIER: US 6738062 B1

TITLE: Displaced subdivision surface representation

DATE-ISSUED: May 18, 2004

INVENTOR-INFORMATION:
NAME	CITY	STATE	ZIP CODE	COUNTRY
Moreton; Henry P.	Woodside	CA		

US-CL-CURRENT: <u>345</u>/<u>423</u>; <u>345</u>/<u>420</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 5.   Document ID: US 6718291 B1

L13: Entry 5 of 16   File: USPT   Apr 6, 2004

US-PAT-NO: 6718291
DOCUMENT-IDENTIFIER: US 6718291 B1

TITLE: Mesh-free method and system for modeling and analysis

DATE-ISSUED: April 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shapiro; Vadim	Madison	WI	53705	
Tsukanov; Igor G.	Madison	WI	53705	

US-CL-CURRENT: 703/2; 703/14, 703/5, 716/20

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐ 6. Document ID: US 6614847 B1

L13: Entry 6 of 16   File: USPT   Sep 2, 2003

US-PAT-NO: 6614847
DOCUMENT-IDENTIFIER: US 6614847 B1

TITLE: Content-based video compression

DATE-ISSUED: September 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Das; Arnab	Greenbelt	MD		
Talluri; Rajendra K.	Plano	TX		

US-CL-CURRENT: 375/240.16; 375/240.15, 375/240.23, 375/240.27, 714/756, 714/822, 714/824

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐ 7. Document ID: US 6462742 B1

L13: Entry 7 of 16   File: USPT   Oct 8, 2002

US-PAT-NO: 6462742
DOCUMENT-IDENTIFIER: US 6462742 B1

TITLE: System and method for multi-dimensional motion interpolation using verbs and adverbs

DATE-ISSUED: October 8, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rose; Charles F.	Redmond	WA		
Cohen; Michael F.	Seattle	WA		

Bodenheimer, Jr.; Robert E.   Atlanta   GA

US-CL-CURRENT: <u>345</u>/<u>473</u>

`| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |`

☐ 8.   Document ID: US 6453073 B2

L13: Entry 8 of 16   File: USPT   Sep 17, 2002

US-PAT-NO: 6453073
DOCUMENT-IDENTIFIER: US 6453073 B2

TITLE: Method for transferring and displaying compressed images

DATE-ISSUED: September 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Johnson; Stephen G.	Newport Beach	CA		

US-CL-CURRENT: <u>382</u>/<u>239</u>; <u>369</u>/<u>124.06</u>, <u>382</u>/<u>240</u>

`| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |`

☐ 9.   Document ID: US 6389154 B1

L13: Entry 9 of 16   File: USPT   May 14, 2002

US-PAT-NO: 6389154
DOCUMENT-IDENTIFIER: US 6389154 B1
** See image for **Certificate of Correction** **

TITLE: Exact evaluation of subdivision surfaces generalizing box splines at
arbitrary parameter values

DATE-ISSUED: May 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stam; Jos	Seattle	WA		

US-CL-CURRENT: <u>382</u>/<u>108</u>; <u>345</u>/<u>582</u>, <u>382</u>/<u>100</u>

`| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |`

☐ 10.   Document ID: US 6272253 B1

L13: Entry 10 of 16   File: USPT   Aug 7, 2001

US-PAT-NO: 6272253
DOCUMENT-IDENTIFIER: US 6272253 B1

TITLE: Content-based video compression

DATE-ISSUED: August 7, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bannon; Thomas J.	Dallas	TX		
Talluri; Rajendra K.	Plano	TX		

US-CL-CURRENT: 382/236; 382/243

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

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11.   Document ID: US 6026183 A

L13: Entry 11 of 16   File: USPT   Feb 15, 2000

US-PAT-NO: 6026183
DOCUMENT-IDENTIFIER: US 6026183 A
** See image for Certificate of Correction **

TITLE: Content-based video compression

DATE-ISSUED: February 15, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Talluri; Rajendra K.	Plano	TX		
Das; Arnab	Greenbelt	MD		
Bannon; Thomas J.	Dallas	TX		
Courtney; Jonathan D.	Richardson	TX		

US-CL-CURRENT: 382/194; 382/180, 382/237

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

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12.   Document ID: US 5896176 A

L13: Entry 12 of 16   File: USPT   Apr 20, 1999

US-PAT-NO: 5896176
DOCUMENT-IDENTIFIER: US 5896176 A

TITLE: Content-based video compression

DATE-ISSUED: April 20, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Das; Arnab	Greenbelt	MD		
Talluri; Rajendra K.	Plano	TX		

US-CL-CURRENT: <u>375</u>/<u>240</u>.15; <u>375</u>/<u>240</u>.23, <u>375</u>/<u>240</u>.27, <u>714</u>/<u>756</u>, <u>714</u>/<u>822</u>, <u>714</u>/<u>824</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D: |

☐ 13.   Document ID: US 5892847 A

L13: Entry 13 of 16   File: USPT   Apr 6, 1999

US-PAT-NO: 5892847
DOCUMENT-IDENTIFIER: US 5892847 A

TITLE: Method and apparatus for compressing images

DATE-ISSUED: April 6, 1999

INVENTOR-INFORMATION:
NAME	CITY	STATE	ZIP CODE	COUNTRY
Johnson; Stephen G.	Newport Beach	CA		

US-CL-CURRENT: <u>382</u>/<u>232</u>; <u>382</u>/<u>233</u>, <u>382</u>/<u>239</u>, <u>382</u>/<u>244</u>, <u>382</u>/<u>248</u>, <u>382</u>/<u>304</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D: |

☐ 14.   Document ID: US 5561754 A

L13: Entry 14 of 16   File: USPT   Oct 1, 1996

US-PAT-NO: 5561754
DOCUMENT-IDENTIFIER: US 5561754 A
** See image for **Certificate of Correction** **

TITLE: Area preserving transformation system for press forming blank development

DATE-ISSUED: October 1, 1996

INVENTOR-INFORMATION:
NAME	CITY	STATE	ZIP CODE	COUNTRY
Oliver; James H.	Ames	IA		
Nair; Nirmal K.	Ames	IA		

US-CL-CURRENT: <u>345</u>/<u>441</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D: |

☐ 15.   Document ID: US 5510995 A

L13: Entry 15 of 16   File: USPT   Apr 23, 1996

US-PAT-NO: 5510995
DOCUMENT-IDENTIFIER: US 5510995 A

TITLE: Sculptured surface synthesis based on functional design constraints

DATE-ISSUED: April 23, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Oliver; James H.	Ames	IA		

US-CL-CURRENT: <u>700/182</u>; <u>345/419</u>, <u>345/440</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw.D |

☐ 16. Document ID: US 5005147 A

L13: Entry 16 of 16   File: USPT   Apr 2, 1991

US-PAT-NO: 5005147
DOCUMENT-IDENTIFIER: US 5005147 A

TITLE: Method and apparatus for sensor fusion

DATE-ISSUED: April 2, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Krishen; Kumar	Seabrook	TX		
Shaw; Scott W.	Saratoga	CA		
deFigueiredo; Rui J. P.	Houston	TX		

US-CL-CURRENT: <u>703/13</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |

Term	Documents
REGION?	0
REGIONA	18
REGIONB	1
REGIONC	1
REGIOND	3
REGIONE	17
REGIONG	3
REGIONH	2
REGIONI	1
REGIONK	2
REGIONL	4
(L10 AND REGION?).PGPB,USPT.	16

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Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 20020029135 A1

Using default format because multiple data bases are involved.

L6: Entry 1 of 1   File: PGPB   Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020029135
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020029135 A1

TITLE: Process for increasing the efficiency of a computer in finite element
simulations and a computer for performing that process

PUBLICATION-DATE: March 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hollig, Klaus	Zavelstein		DE	
Reif, Ulrich	Reichelsheim		DE	
Wipper, Joachim	Leinfelden-Echterdingon		DE	

US-CL-CURRENT: 703/2

Term	Documents
SIMULATION	73656
SIMULATIONS	23815
REGION	908368
REGIONS	509267
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(L5 AND SIMULATION REGION).PGPB,USPT.	1

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Search Results - Record(s) 1 through 8 of 8 returned.

☐ 1.   Document ID: US 20040071363 A1

Using default format because multiple data bases are involved.
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L7: Entry 1 of 8                         File: PGPB                 Apr 15, 2004


PGPUB-DOCUMENT-NUMBER: 20040071363
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040071363 A1


TITLE: Methods for performing DAF data filtering and padding


PUBLICATION-DATE: April 15, 2004


INVENTOR-INFORMATION:
NAME                          CITY              STATE    COUNTRY     RULE-47
Kouri, Donald J.              Bellaire          TX       US
Hoffman, David K.             Missouri City     TX       US
Kakadiaris, Ioannis A.        Houston           TX       US
Shi, Zhuoer                   Fayetteville      AR       US
Zhang, DeSheng                Houston           TX       US
Gunaratne, Gemunu H.          East Lansing      MI       US
Arnold, Mark                  Shaanxi                    US
Wang, Haixiang                                           US
Wei, Guowei W.                                           US
Bao, Zheng                                               CN


US-CL-CURRENT: 382/276; 382/128, 382/254
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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐ 2.   Document ID: US 20030026493 A1
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L7: Entry 2 of 8                         File: PGPB                 Feb 6, 2003


PGPUB-DOCUMENT-NUMBER: 20030026493
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030026493 A1


TITLE: Parallel object-oriented, denoising system using wavelet multiresolution
analysis


PUBLICATION-DATE: February 6, 2003


INVENTOR-INFORMATION:
```

NAME	CITY	STATE	COUNTRY	RULE-47
Kamath, Chandrika	Dublin	CA	US	
Baldwin, Chuck H.	Dublin	CA	US	
Fodor, Imola K.	Oakland	CA	US	
Tang, Nu A.	Sacramento	CA	US	

US-CL-CURRENT: <u>382/260</u>; <u>382/275</u>, <u>382/276</u>, <u>382/304</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Dr |

☐ 3.   Document ID: US 20020029135 A1

L7: Entry 3 of 8   File: PGPB   Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020029135
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020029135 A1

TITLE: Process for increasing the efficiency of a computer in finite element <u>simulations</u> and a computer for performing that process

PUBLICATION-DATE: March 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hollig, Klaus	Zavelstein		DE	
Reif, Ulrich	Reichelsheim		DE	
Wipper, Joachim	Leinfelden-Echterdingon		DE	

US-CL-CURRENT: <u>703/2</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Dr |

☐ 4.   Document ID: US 6453073 B2

L7: Entry 4 of 8   File: USPT   Sep 17, 2002

US-PAT-NO: 6453073
DOCUMENT-IDENTIFIER: US 6453073 B2

TITLE: Method for transferring and displaying compressed images

DATE-ISSUED: September 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Johnson; Stephen G.	Newport Beach	CA		

US-CL-CURRENT: <u>382/239</u>; <u>369/124.06</u>, <u>382/240</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Dr |

☐ 5. Document ID: US 5892847 A

L7: Entry 5 of 8   File: USPT   Apr 6, 1999

US-PAT-NO: 5892847
DOCUMENT-IDENTIFIER: US 5892847 A

TITLE: Method and apparatus for compressing images

DATE-ISSUED: April 6, 1999

INVENTOR-INFORMATION:
NAME   CITY   STATE   ZIP CODE   COUNTRY
Johnson; Stephen G.   Newport Beach   CA

US-CL-CURRENT: 382/232; 382/233, 382/239, 382/244, 382/248, 382/304

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐ 6. Document ID: US 5610815 A

L7: Entry 6 of 8   File: USPT   Mar 11, 1997

US-PAT-NO: 5610815
DOCUMENT-IDENTIFIER: US 5610815 A

TITLE: Integrated vehicle positioning and navigation system, apparatus and method

DATE-ISSUED: March 11, 1997

INVENTOR-INFORMATION:
NAME   CITY   STATE   ZIP CODE   COUNTRY
Gudat; Adam J.   Edelstein   IL
Bradbury; Walter J.   Peoria   IL
Christensen; Dana A.   Peoria   IL
Clow; Richard G.   Phoenix   AZ
Devier; Lonnie J.   Pittsburgh   PA
Kemner; Carl A.   Peoria Heights   IL
Kleimenhagen; Karl W.   Peoria   IL
Koehrsen; Craig L.   Peoria   IL
Kyrtsos; Christos T.   Peoria   IL
Lay; Norman K.   Peoria   IL
Peterson; Joel L.   Peoria   IL
Rao; Prithvi N.   Pittsburgh   PA
Schmidt; Larry E.   Peoria   IL
Sennott; James W.   Bloomington   IL
Shaffer; Gary K.   Butler   PA
Shi; Wenfan   Pittsburgh   PA
Shin; Dong H.   Pittsburgh   PA
Singh; Sanjiv J.   Pittsburgh   PA
Stafford; Darrell E.   Dunlap   IL

Weinbeck; Louis J.	Peoria	IL
West; Jay H.	Pittsburgh	PA
Whittaker; William L.	Pittsburgh	PA
Wu; Baoxin	Pittsburgh	PA

US-CL-CURRENT: 701/23; 318/587, 340/988, 342/357.08, 342/357.13, 342/357.14, 342/455, 342/457, 701/213, 701/217, 701/221 , 701/301, 73/178R

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 7. Document ID: US 5390125 A

L7: Entry 7 of 8   File: USPT   Feb 14, 1995

US-PAT-NO: 5390125
DOCUMENT-IDENTIFIER: US 5390125 A

TITLE: Vehicle position determination system and method

DATE-ISSUED: February 14, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sennott; James W.	Bloomington	IL		
Kyrtsos; Christos T.	Peoria	IL		
Gudat; Adam J.	Edelstein	IL		
Christensen; Dana A.	Peoria	IL		
Friedrich; Douglas W.	Pekin	IL		
Stafford; Darrell E.	Dunlap	IL		

US-CL-CURRENT: 701/214; 342/357.02, 342/457, 701/226

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 8. Document ID: US 5375059 A

L7: Entry 8 of 8   File: USPT   Dec 20, 1994

US-PAT-NO: 5375059
DOCUMENT-IDENTIFIER: US 5375059 A
** See image for Certificate of Correction **

TITLE: Vehicle position determination system and method

DATE-ISSUED: December 20, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kyrtsos; Christos T.	Peoria	IL		
Gudat; Adam J.	Edelstein	IL		
Christensen; Dana A.	Peoria	IL		
Friedrich; Douglas W.	Pekin	IL		

Stafford; Darrell E.   Dunlap   IL

US-CL-CURRENT: 701/215; 342/357.03, 342/457, 701/226

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

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CONDITIOND	21
CONDITIONE	17
CONDITIONG	44
CONDITIONI	8
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